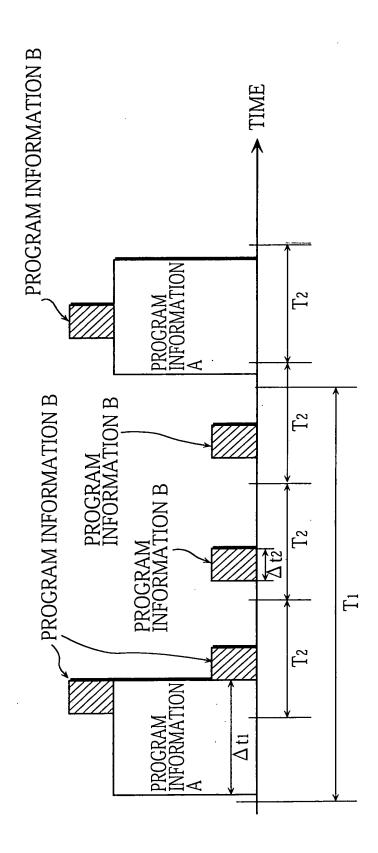
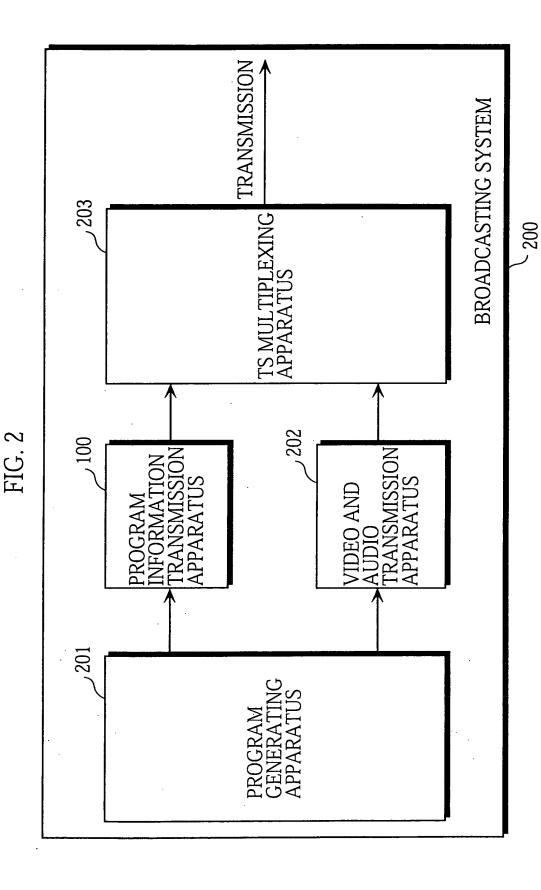
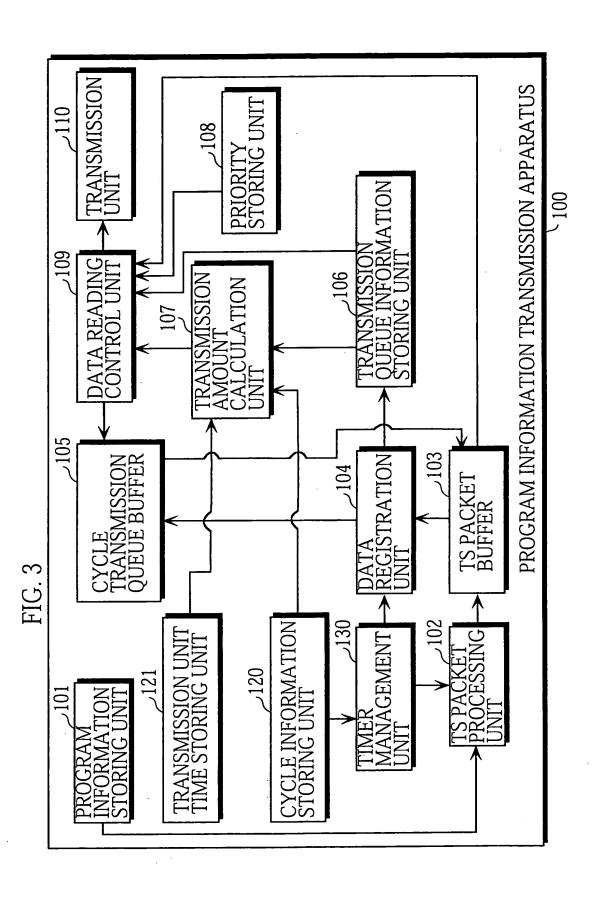
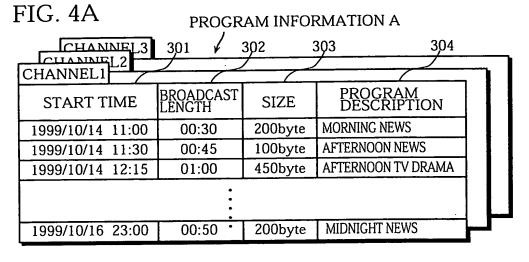
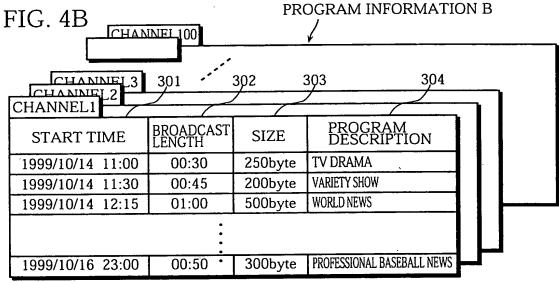
FIG. 1











]	FIG. 4C	PROĢR	AM INFO	RMATION C	
	CHANNEL3	301	302	303 304	
	CHANNEL1			,	T I
	START TIME	BROADCAST LENGTH	SIZE	PROGRAM DESCRIPTION	
	1999/10/14 11:00	00:30	200byte	MORNING NEWS	
	1999/10/14 11:30	00:45	100byte	AFTERNOON NEWS	
	1999/10/14 12:15	01:00	450byte	AFTERNOON TV DRAMA	]   [
		•			$\  \ $
	1994/11/13 23:00	00:50	190byte	MIDNIGHT NEWS	

FIG. 5

TYPE OF PROGRAM INFORMATION	CYCLE LENGTH
PROGRAM INFORMATION A(TableA)	3 SECONDS
PROGRAM INFORMATION B(TableB)	10 SECONDS
PROGRAM INFORMATION C(TableC)	10 SECONDS

FIG. 6

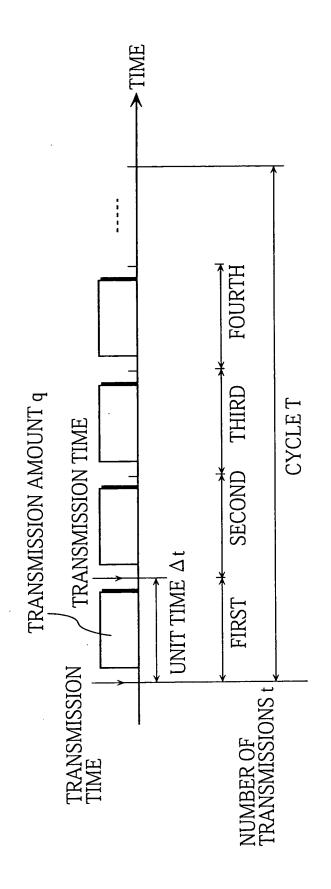


FIG. 7A

CYCLE	CYCLE=THREE SECONDS	SECON	DS
A1[1]	A1[2]	A1[3]	A1[4]
A2[1]	A2[2]	A2[3]	A2[4]
A3[1]	A3[2]	A3[3]	A3[4]

FIG 71

						• C1[69]		· C3[76]
						C1[62]		C3[70]
						C1[61] C1[62]	C2[59]	C3[61]
						•	•	
						C1[40]	C2[38]	C3[40]
						C1[39] C1[40]	C2[37]	C3[39]
						•	•	•
						C1[22]	C2[21]	C3[20]
	B1[4]	B2[4]	•	•	B100[4]	C1[21]	C2[20]	C3[19]
ECONDS	B1[3]	B2[3]	•	•	B100[3]		•	•
=TEN S	B1[1] B1[2] B1[3]	B2[2] B2[3]	•	•	3100[1] B100[2] B100[3] B1	[21] C1[2]	C2[1] C2[2]	C3[1] C3[2]
CYCLE	B1[1]	B2[1]	•	•	B100[1]		C2[1]	[3[1]

FIG. 8

TRANSMISSION QUEUE BUFFER 105

TRANSMISSION
QUEUE 1

A1 A2 A3

TRANSMISSINN
QUEUE 2

B1 B2 ---- B100

TRANSMISSION
QUEUE 3

C1 C2 C3

FIG. 9

TRANSMISS QUEUE 1 T	SION ableA			
SubTable	Section1			
A1	4			
A2	4			
A3	4			
TRANSMIS QUEUE 2 T	SION ableB	·		
SubTable	Section1			
B1	4			•
B2	4			
•	•			
•	•			
B100	4			
TRANSMIS	SION QUEU	E 3 TableC		
SubTable	Section1	Section2	Section3	Section4
C1	21	18	22	8
C2	20	17	22	
C3	19	20	22	15

FIG. 10

Table	PRIORITY
TableA	1
TableB	2
TableC	3

FIG. 11

Table	CYCLE	UNIT TIME PERIOD	NUMBER OF TRANSMISSION PERIODS	NUMBER OF PACKETS	NUMBER OF PACKETS PER UNIT TIME PERIOD	EMi	EL
TableA	TableA THREE SECONDS	100ms	30回	12	0.4	1	
TableB	TableB TEN SECONDS	100ms	100回	400	4	5	6
TableC	TableC TEN SECONDS	100ms	100回	204	2.04	က	

## FIG. 12

CRITERION A-1 The number standard tot	The number of packets that are transmitted per unit time period does not exceed the standard total transmission amount EL.
CRITERION B-1	CRITERION B-1 section during transmission
CRITERION B-2	CRITERION B-2 Packets of tables given higher priorities are transmitted first .
CRITERION B-3 When the a	When the amount of transmitted packets of a current table reaches a corresponding standard table transmission amount Emi, the current table is switched to the next table.

FIG. 13

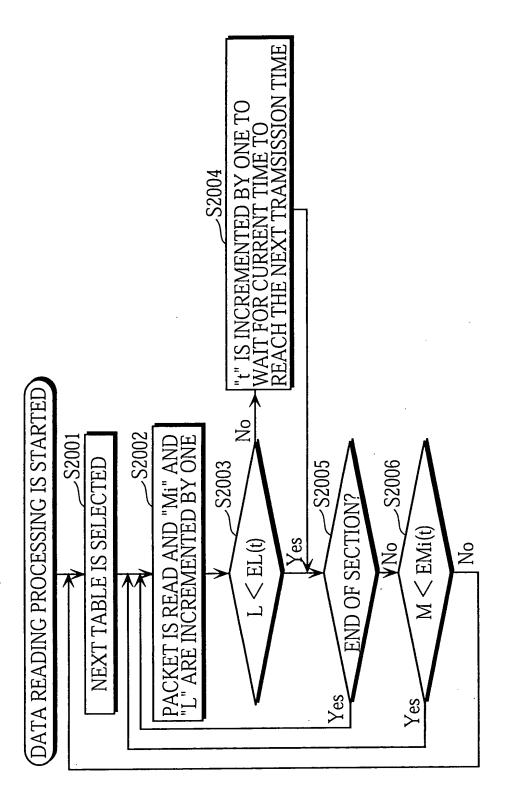


FIG. 14A

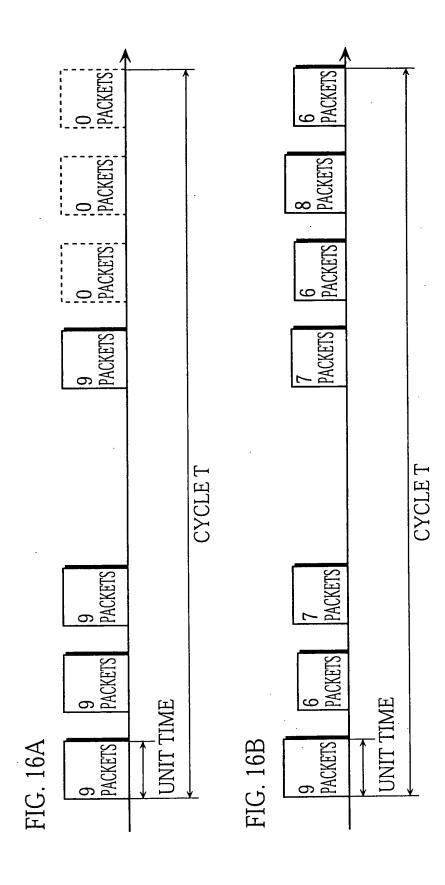
NUMBER OF TRANSMISSIONS t	no.1	no.2	no.3	no.4	no.5	no.6	no.7	no.8	no.9
1	A1	A1	A1	A1	B1	B1	B1	B1	B2
2	B2	B2	B2	В3	В3	B3	В3	C1	C1
3	C1								
4	C1								
5	C1	A2	A2	A2	A2	B4	B4	B4	B4
6	B5	B5	B5	B5	B6	B6	B6	B6	B7
7	B7	B7	B7	B8	В8	В8	B8	В9	В9
8	В9	B9	B10	B10	B10	B10	C2	C2	C2

FIG. 14B

	TableA		TableB		TableC		
NUMBER OF TRANSMISSIONS t	EM1(t)	M1	EM2(t)	M2	EM3(t)	M3	EL(t)
1	1	4	5	5	3	0	9
2	2	4	10	12	6	2	18
3	3	4	15	12	9	11	27
4	4	4	20	12	12	20	36
5	5	8	25	16	15	21	45
6	6	8	30	25	18	21	54
7	7	8	35	34	21	21	63
8	8	8	40	40	24	24	72

FIG. 15

Table	CYCLE	UNIT TIME PERIOD	T TIME TRANSMISSION PACKETS PER UOD PERIODS UNIT TIME PER		ESi(t)	EMi(t)	ELt(t)
TableA	Table A THREE SECONDS	100ms	12	0.4	0.5×t	$ 0.5 \times t $ INT(ES1(t) + 0.9) ME1(t)	ME1(t)
TableB	TableB TEN SECONDS	100ms	400	4	4.1×t	$4.1 \times t$ INT(ES2(t) +0.9) +EM2(t)	+ EMZ(t)
TableC	TableC TEN SECONDS	100ms	204	2.04	$2.1 \times t$	$ 2.1\times t $ INT(ES3(t) +0.9) $ $ + EM3(t)	+EM3(t)



## grang gr On the control of the control

**7**A

I       no.2       no.3       no.4       no.5       no.6       no.7       no.8         A1       A1       A1       B1       B1       B1       B1       B1         B2       B2       B3       B3       B3       B3         B4       B4       B4       B4       B4       B4         C1       C1       C1       C1       C1         B5       B5       B6       B6       B6         B7       B7       B7       B8       B6       B6						200			
A1       A1       B1       B2       B3       B3       B3       B3       B4       B6       B6 <th< td=""><td>no.1</td><td>no.2</td><td>no.3</td><td>no.4</td><td>no.5</td><td>9.ou</td><td>no.7</td><td>no.8</td><td>9.ou</td></th<>	no.1	no.2	no.3	no.4	no.5	9.ou	no.7	no.8	9.ou
B2         B2         B3         B3         B3           B4         B4         B4         B4         B4           C1         C1         C1         C1         C1           B5         B5         B6         B6         B6           B7         B7         B7         B8         B8	Al	A1	A1	A1	B1	B1	B1	B1	B2
B4         B4         B4         B4         B4           C1         C1         C1         C1           C1         C1         C1         C1           C1         C1         C1         C1           C1         C1         C1         C1           B5         B5         B6         B6           B7         B7         B7         B8	B2	B2	B2	B3	B3	B3			
C1         C1         C1         C1         C1           C1         C1         C1         C1         C1           C1         C1         C1         C1         C1           B5         B5         B6         B6         B6           B7         B7         B7         B8         B8	B3	B4	B4	B4	B4	B4	B4		
C1       C1       C1       C1       C1         C1       C1       C1       C1       C1         B5       B5       B6       B6       B6         B7       B7       B7       B8       B8	C1	C1	C1	C1	C1	C1			
C1       C1       C1       C1       C1         B5       B5       B5       B6       B6         B7       B7       B7       B8       B8	C1								
B5     B5     B6     B6       B7     B7     B7     B8	Cl	C1	CI	C1	C1	C1			
B7 B7 B7 B7	B5	B5	B5	B5	B6	B6	B6		
	B6 .	B7	B7	B7	B7	B8			

**7B** 

	EL(t)	6	15	22	28	35	41	48	54
	M3	0	0	2	8	15	21	21	21
TableC	EM3(t)	3	5	7	6	11	13	15	17
	ES3(t)	2.1	4.2	6.3	84	10.5	12.6	14.7	16.8
	M2	5	11	16	16	16	16	23	29
TableB	EM2(t)	2	6	13	17	21	25	29	33
	ES2(t)	4.1	8.2	12.3	16.4	20.5	24.6	28.7	32.8
	M1	4	4	4	4	4	4	4	4
TableA	EM1(t)			2	2	3	3	4	4
	ES1(t)	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0
	OF SSIONS								

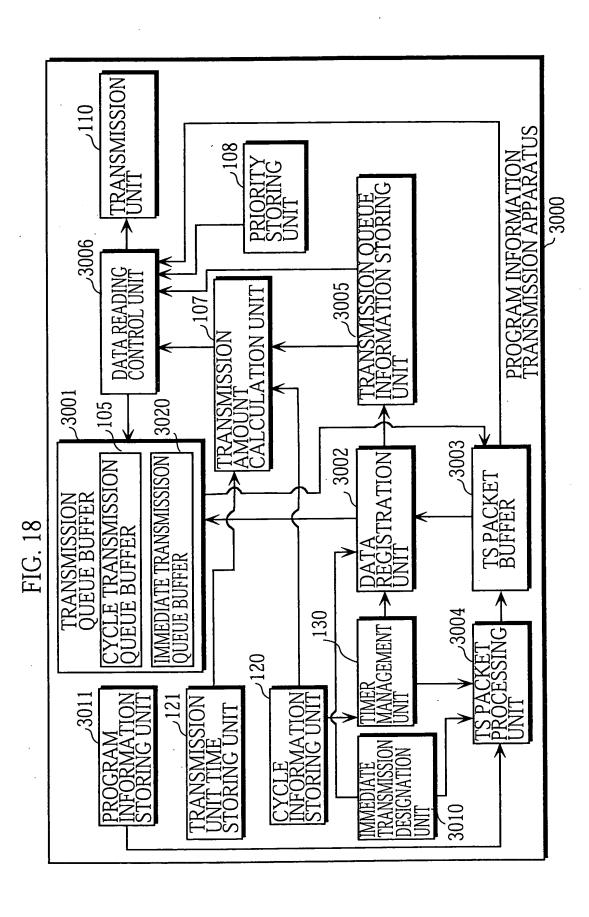


FIG.	FIG. 19A	CYCLE=THREE SECONDS	=THRE	SECON	DS
		A1[1]	A1[2]	A1[3]	A1[4]
		A2[1]	A2[2]	A2[3]	A2[4]
		A3[1]	A3[2]	A3[3]	A3[4]

						)		)
						C1[61]	C2[59]	C3[61]
						•	•	•
						C1[40]	C2[38]	C3[40]
						C1[39] C1[40]	C2[37] C2[38]	C3[39] C3[40]
							•	•
						C1[22]	C2[21]	C3[20]
	B1[4]	B2[4]	•	•	100[4]	C1[21]	C2[20]	C3[19]
60					$\square$	_		_
CONDS	B1[3] I	B2[3]	•	•	B100[3] B	•	•	•
=TEN SECONDS	B1[2] B1[3] I	B2[2] B2[3]	•	•	B100[2] B100[3] B	•	•	C3[5] ·
CYCLE=TEN SECONDS	B1[1] B1[2] B1[3] I	B2[1] B2[2] B2[3]	•	•	B100[1] B100[2] B100[3] B100[4]	C1[2] ·	•	C3[2] •
9B CYCLE—TEN SECONDS	B1[2] B1[3]	B2[1] B2[2] B2[3]	•	•	B100[1] B100[2] B100[3] B	•	•	C3[2] •
FIG. 19B CYCLE=TEN SECONDS	B1[1] B1[2] B1[3] I	B2[1] B2[2] B2[3]		•	B100[1] B100[2] B100[3] B	•	•	C3[2] •

	D1[4]	D2[4]	D3[4]
	D1[3]	D2[3]	D3[3]
IATE	D1[2]	D2[2]	D3[2]
IMMEDIATE	[1][0	D2[1]	D3[I]
FIG. 19C			
FIG.			

C3[76]

[02][0]

C1[69]

[C1[62]]

FIG. 20

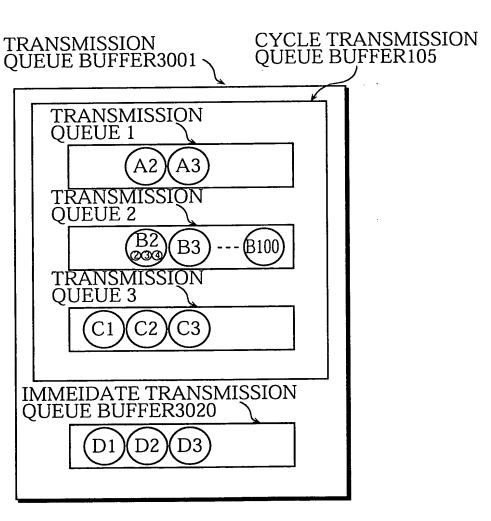


FIG. 21

TRANSMIS QUEUE 1	SION TableA
SubTable	Section1
A1	4
A2	4
A3	4
TRANSMIS QUEUE 2	SSION TableB
SubTable	Section1
B1	4
B2	. 4
•	•
•	•
B100	4

TRANSMIS	SION QUE	JE 3 Table	·C	
SubTable	Section1	Section2	Section3	Section4
C1	21	18	22	8
C2	20	17	22	
C3	19	20	22	15

IMMEDIATE TI QUEUE BUFFE	RANSMISSION R TableD
SubTable	Section1
D1	4
D2	4
D3	4

FIG. 22

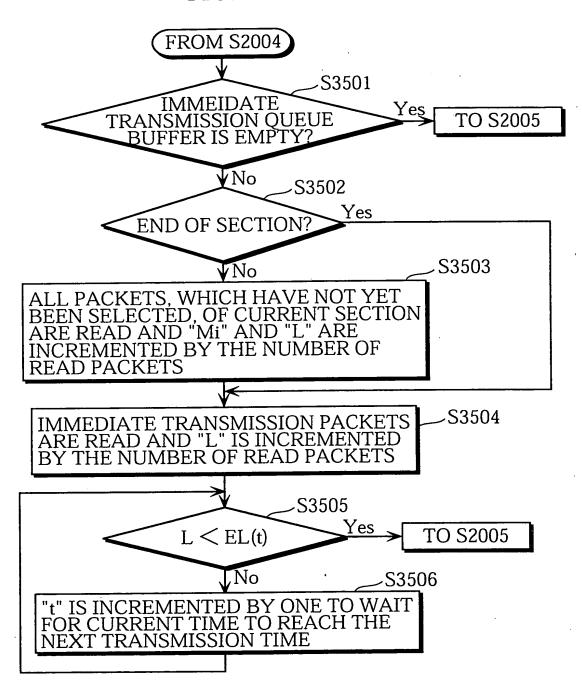


FIG. 23A

NUMBER OF TRANSMISSIONS t   no.1	i	no.2	no.3	no.4	no.5	9.ou	no.7	8.ou	no.9	no.10	no.11	no.12	no.13	no.3 no.4 no.5 no.6 no.7 no.8 no.9 no.10 no.11 no.12 no.13 no.14 no.15	no.15
1	A1	A1	A1	A1 A1 B1	B1	B1	B1 B1 B2	B1	B2						
2	B2	B2	B2	DI DI	DI	Ω	D1 D1 D2 D2	DI	DS		D2 D3	.D3	D3	D3	D3
3							B3 B3		B3						-
4															

FIG. 23B

	TableA		TableB		TableC		TableD		
NUMBER OF TRANSMISSIONS t EM1(t)	EM1(t)	M1	M1 EM2(t)	M2	EM3(t)	M3	M4	T	EL(t)
		4	5	5	3	0	0	6	6
2	2	4	10	8	9	0	12	24	18
3	3	4	15	11	6	0	12	22	27
4									